

7<sup>th</sup> Grade Math 2<sup>nd</sup> 9Wks Test Study Guide

1. Sarah earns \$7.50 per hour babysitting. Which equation shows her pay,  $p$ , if she babysits for  $q$  hours?
  - a.  $p = 7.50q$
  - b.  $p = q + 7.50$
  - c.  $p = q - 7.50$
  - d.  $p = 7.50 \div q$
2. What is the correct choice to simplify the expression  $(4a + 3b) - (2a - d) + (-5b + 3d)$ ?
  - a.  $2a - 8b - 4d$
  - b.  $2a - 2b + 2d$
  - c.  $2a - 2b + 4d$
  - d.  $2a + 2b - 4d$
3. Evaluate  $\frac{x-y}{x+y}$  for  $x = 12$  and  $y = 9$ . What is the answer in its simplest form?
  - a.  $\frac{1}{7}$
  - b.  $\frac{3}{21}$
  - c.  $\frac{7}{1}$
  - d.  $\frac{1}{1}$
4. Evaluate  $3a - b$  when  $a = -2$  and  $b = 5$ .
  - a. 17
  - b. -11
  - c. -1
  - d. 1
5. What is the solution to the equation  $4x - 2 = -10$ ?
  - a. -3
  - b. -3
  - c. -2
  - d. 7
6. Mrs. Darnell gave each student in all the 7<sup>th</sup> grade math classes 2 pencils. She gave out 984 pencils altogether. Which equation can help determine  $n$ , the number of students in all the 7<sup>th</sup> grade math classes?
  - a.  $984 - n = 2$
  - b.  $2 + n = 984$
  - c.  $\frac{n}{2} = 984$
  - d.  $2n = 984$